9-3 Factoring Quadratics

Objectives:

- I can factor out a greatest common factor
-I can factor a quadratic expression from standard form.

Nov 7-12:49 PM

Factor out the greatest common factor

$3x^3 - 27x^2 + 9x$

$3x(x^2 - 9x + 3)$

$2x^4 + 8x^3 - 6x^2 - 10x + 8$

$2(x^4 + 4x^3 - 3x^2 - 5x + 4)$

Mar 8-12:16 PM

Factoring with a leading coefficient of 1

$x^2 + bx + c$

Find factors of c that add to b

Nov 7-1:07 PM

Factor each quadratic expression.

add mult

$x^2 + 5x + 4$

4
4 1

$(x+4)(x+1)$

$x^2 + 6x + 8$

$(x+4)(x+2)$

Jan 3-10:10 AM

Factor each quadratic expression.

$x^2 - 7x + 10$ $x^2 - 2x - 8$

$(x-5)(x-2)$ $(x-4)(x+2)$

Nov 7-1:33 PM

$x^2 + x - 12$

$(x-3)(x+4)$

Mar 8-12:11 PM

2)

$5x^4 + 10x^2 - 5$

$5(x^4 + 2x^2 - 1)$

Mar 18-9:12 AM